



California State Fire Marshal **CODE INTERPRETATION**

Date Issued	9/19/07	Interpretation	07 074
Topic			
Code Section(s)	CMC Section 608, NFPA 72		
Requested by	Ryan Phillips American Consulting Engineers Electrical Inc. 100 Saratoga Ave, Suite 200 Santa Clara, CA 95051 (408) 236-2312 rphillip@amceinc.com		

Can duct detectors installed (in a public K-12 school building requiring a fire alarm system) as required by Section 608 of the California Mechanical Code for HVAC unit shutdown receive their input power from a 120VAC power source, if CSFM listed as such? The monitoring of the integrity (alarm/trouble) of the device will still be through the building fire alarm system.

Yes.

Is it the intent of the code to require that duct detectors installed (in a public K-12 school building requiring a fire alarm system) per Section 608 of the California Mechanical Code for HVAC shutdown be provided with battery back-up, even when powered by a 120VAC power source?

Smoke detectors powered separately from the fire alarm system for the sole function of stopping fans, shall not require standby power. The detector shall also transmit a trouble signal to the fire alarm panel.

Is it the intent of the code to require that all duct detectors is CSFM listed for outdoor use when installed on exterior ducts on a roof, even when the duct detector is protected by a NEMA-3R weatherproof box?

Yes. The duct detector must be listed for the application for which it is being used and installed in accordance with manufacturers' instructions.